

# CURRICULUM VITAE

LIANG NIU

E-MAIL: niul@niehs.nih.gov

## EDUCATION

### **The Ohio State University**

**Ph.D. in Biostatistics** (Advisor: Dr. Shili Lin) 2012

**Ph.D. in Mathematics** (Advisor: Dr. Ákos Seress) 2008

**M.S. in Applied Statistics** 2008

### **Peking University, China**

**M.S. in Mathematics** 2002

### **Hubei University, China**

**B.S. in Mathematics** 1997

## POSITIONS & WORKING EXPERIENCE

### **The Ohio State University**

**Research Associate**, Comprehensive Cancer Center 2010-2011

**Lecturer**, Department of Mathematics 2008-2009

Courses taught: Calculus, Linear Algebra

**Teaching Associate**, Department of Mathematics 2009-2010, 2003-2008

Courses taught: Calculus, Linear Algebra

### **Hubei University, China**

**Instructor**, Department of Mathematics Autumn 2002

Courses taught: Cryptography, Number Theory

### **Peking University, China**

**Teaching Associate**, Department of Mathematics Spring 2000

Courses taught: Calculus

### **Jiangnan University, China**

**Instructor**, Department of Mathematics 1997-1999

Courses taught: Calculus, Linear Algebra

## PUBLICATIONS

**Liang Niu** and Shili Lin, A mixture model for detecting long-range DNA regulation, in preparation.

**Liang Niu** and Shili Lin, Two models for detecting long-range DNA interaction with different intensities between two samples, in preparation.

**Liang Niu**, Kelly Telu, David Lucas, John C. Byrd, Shili Lin and Michael A. Freitas, A soft threshold approach for scoring protein matches from tandem mass spectrometry data, submitted.

Cai Heng Li, **Liang Niu**, Ákos Seress and Ronald Solomon, The vertex primitive and vertex bi-primitive s-arc regular graphs, Journal of Combinatorial Theory, Series B, Volume 100, Issue 4, 359-366, 2010.

## AWARDS

**The Ohio State University**

**Department of Statistics**

Whitney Award as Outstanding Research Associate

2011

**Hubei University, China**

**Department of Mathematics**

Outstanding Student Scholarship (multiple times)

1994-1997

## CONFERENCES

Liang Niu, speaker, “Mixture Modeling for Identifying Spatial Interactions of Chromatins”, Topic contributed talk, Joint Statistical Meetings 2012, San Diego, CA, August 2012.

Liang Niu, presenter, “Detecting long-range DNA regulation”, poster, Workshop for Young Researchers in Mathematical Biology, Mathematical Biosciences Institute, The Ohio State University, August 2011.

Liang Niu, participant, National Science Foundation/Defense Threat Reduction Agency Algorithms Workshop, Boston, MA, June 2011.

Liang Niu, participant, Conference on Groups and Computation, The Ohio State University, March 2008.

## **RESEARCH INTEREST**

- Statistical genetics
- Statistical analysis on next-generation sequencing data (ChIP-Seq, RNA-Seq)
- Statistical methods in cancer genomics
- Statistical methods in proteomics
- Algebraic graph theory

## **COMPUTER SKILLS**

- Proficient use of R, C, SAS, MATLAB and Minitab
- Proficient use of Latex, Microsoft Excel, Word, Power Point